



PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,412

DATE: 07/15/2002

TIME: 12:37:34

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07152002\J070412.raw

3 <110> APPLICANT: AstaCarotene AB
 6 <120> TITLE OF INVENTION: DNA construct and its use
 8 <130> FILE REFERENCE: 29295-AstaCarotene
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/070,412
 C--> 11 <141> CURRENT FILING DATE: 2002-06-12
 13 <160> NUMBER OF SEQ ID NOS: 2
 15 <170> SOFTWARE: PatentIn Ver. 2.1

**Does Not Comply
 Corrected Diskette Needed**

ERRORED SEQUENCES

186 <210> SEQ ID NO: 2
 187 <211> LENGTH: 346
 188 <212> TYPE: PRT
 189 <213> ORGANISM: Artificial Sequence
 W--> 190 <220> FEATURE: *C-mut*
 190 <223> OTHER INFORMATION: Description of Artificial Sequence: deduced fusion protein
 of
 191 transit peptide + peptide with beta-carotene C-4 oxygenase activity
 193 <400> SEQUENCE: 2
 195 Met Ala Ser Ser Met Leu Ser Ser Ala Thr Met Val Ala Ser Pro Ala
 196 1 5 10 15
 198 Gln Ala Thr Met Val Ala Pro Phe Asn Gly Leu Lys Ser Ser Ala Ala
 199 20 25 30
 201 Phe Pro Ala Thr Arg Lys Ala Asn Asn Asp Ile Thr Ser Ile Thr Ser
 202 35 40 45
 204 Asn Gly Gly Arg Val Asn Cys Met Ser Arg Met Pro Ser Glu Ser Ser
 205 50 55 60
 207 Asp Ala Ala Arg Pro Ala Leu Lys His Ala Tyr Lys Pro Pro Ala Ser
 208 65 70 75 80
 210 Asp Ala Lys Gly Ile Thr Met Ala Leu Thr Ile Ile Gly Thr Trp Thr
 211 85 90 95
 213 Ala Val Phe Leu His Ala Ile Phe Gln Ile Arg Leu Pro Thr Ser Met
 214 100 105 110
 216 Asp Gln Leu His Trp Leu Pro Val Ser Glu Ala Thr Ala Gln Leu Leu
 217 115 120 125
 219 Gly Gly Ser Ser Ser Leu Leu His Ile Ala Ala Val Phe Ile Val Leu
 220 130 135 140
 222 Glu Phe Leu Tyr Thr Gly Leu Phe Ile Thr Thr His Asp Ala Met His
 223 145 150 155 160
 225 Gly Thr Ile Ala Leu Arg His Arg Gln Leu Asn Asp Leu Leu Gly Asn
 226 165 170 175
 228 Ile Cys Ile Ser Leu Tyr Ala Trp Phe Asp Tyr Ser Met Leu His Arg
 229 180 185 190

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231 Lys His Trp Glu His His Asn His Thr Gly Glu Val Gly Lys Asp Pro
232      195      200      205
234 Asp Phe His Lys Gly Asn Pro Gly Leu Val Pro Trp Phe Ala Ser Phe
235      210      215      220
237 Met Ser Ser Tyr Met Ser Leu Trp Gln Phe Ala Arg Leu Ala Trp Trp
238 225      230      235      240
240 Ala Val Val Met Gln Met Leu Gly Ala Pro Met Ala Asn Leu Leu Val
241      245      250      255
245 Phe Met Ala Ala Ala Pro Ile Leu Ser Ala Phe Arg Leu Phe Tyr Phe
246      260      265      270
248 Gly Thr Tyr Leu Pro His Lys Pro Glu Pro Gly Pro Ala Ala Gly Ser
249      275      280      285
251 Gln Val Met Ala Trp Phe Arg Ala Lys Thr Ser Glu Ala Ser Asp Val
252      290      295      300
254 Met Ser Phe Leu Thr Cys Tyr His Phe Asp Leu His Trp Glu His His
255 305      310      315      320
257 Arg Trp Trp Pro Phe Ala Pro Trp Trp Gln Leu Pro His Cys Arg Arg Leu
258      325      330      335
260 Ser Gly Arg Gly Leu Val Pro Ala Leu Ala
261      340      345

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E--> 265 1

VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:190 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:193 M:200 E: Mandatory Header Field missing, <220> not found for SEQ ID#:2
L:265 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2